



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

MEMORANDUM

DATE:

June 5, 1985

TO:

File

FROM:

Sue Ryan

SUBJECT: Michigan/R05-8410-03B

Highland/Hi Mill Manufacturing

MID005341714 MI-0413

A site inspection of the above named facility was conducted on May 21, 1985 by Sue Ryan and Paula Ventura. Hi Mill Manufacturing fabricates tubular aluminum, copper and brass parts. Process rinse water from dipping operations was discharged to an on-site lagoon prior to 1981. Spray evaporation was also used as a disposal method. Heavy metal contamination of the adjacent Highland Recreation area marsh sediments and water has been confirmed by the MDNR.

In November 1983, water, sludge and sediments were removed from the pond. The excavation reportedly went down one foot into clean clay and sand was used to fill in the hole. According to manifests in company files, the following quantity of waste was removed:

> 142 cubic yards contaminated soil 34,400 gallons contaminated sludge 63,300 gallons water (probably not the total quantity)

Current waste disposal practices include recycling more of the rinse water in the plant and off-site disposal of the remaining waste approximately every two months. The waste water is neutralized with caustic soda and stored in two 1600 gallon underground tanks prior to pickup by General Oil Company every two months. The site is completely fenced. Drinking and process water is obtained from two on-site wells that are between 60 and 80 feet deep.

SITE INSPECTION NOTES

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R5-8410-03B MI 0413

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Hi Mill Manufacturing Highland, MI

Process & Waste Information

-fabricate tubular aluminum & copper parts also brass and some

Date: May 21,1985 Time: 100 pm FIT: Sue Ryan Paula Ventura. Site Rep. mr Advert Beard Dick Beard Also, Norm (maintename man) Weather: sunny, 590F northerly wind

- process water was discharged to a holding pond (1946-1981)

- source of water? - pretreatment? none

- -quantity of sludge /sediment removed

 in 1983 cleanup of lagoons (lagoon size also)
 according to manifests -> soil 142 yd3

 sludge 34,400 gal
 water > 63,300 gaf.
- Description of total recycle process (on line since 1979?)

 after dipping parts in acid they are dipped in 4

 successive rinse tanks containing water. This is

 the material that was dumped in the layoun is

 now in the undergrand tanks.
- Wastes currently hauled offsite for disposal -
 - -quantity & type acid picking waste
 - Storage 2 1600 gallon underground tanks
- treatment / disposal method neutralized by countic soda and Raw materials used at facility:

 hauled off site for disposal
 - nitric acid
 - -sulfuric acid
 - dichromate
 - -Tr = degreasers sent off site for recycling

Process & Waste Info. (cont.)

- current status of voofdrain/parking lot drain situation:

drains to: downopouts are connected to pipes that run out to the march.

- Observe: filled lagoon, sprayed areas, current waste storage areas. see photos.

-monitor wells installed by state? -6
latest sampling

(Himill has not ever) bampied the wells.) Last sampling by mour

History

- year operations started 1946
- owner > Himill manufacturing
- operator
- parent company none
- previous owner/operator 7 none use of property

Permits

- -NPDES had a permit from 9/10/17-9/30/82 MJ-0039047
 -Status under RCRA State Huz waste Permit

 generator-
- other permits: AIR # Elexp. date
 no air permits according
 to Boo Beard

Physical

-size of site 21/2 acres
- # of employees 48 according
- water wells on site - depth80' 60-80' use - drinking
-nearby wells - dist to. Use - drinking plant supply
-nearby wells - dist. to. plant supply / plant supply /
residents on private wells: yes
-# Ot buildings on site one building & a shed
- site slope- in front of site down towards - site; slopes
- site security fence - yes is toward mars
guard
- topo map check attended
Distance to nearest: See topo map thack directions — residential area west on 59 ~0.3 — forest preserve (march) adminit > 5 of aits
-residential area West on 59 ~0.3
- Total presence (Marsh) augusta - 3 of act
- surface water NO recreational use?
- offsite building on m 59 E
- industry
- ag land none irrigation?
mi Beard said that the march area
behind the site never chains since
the road repairs were done - something
was blocked off. It used to dry out in the summer